REMARKS

Claims 1-13, 22, 38-50 and 57-58 are pending in the application. Claims 1-3, 6-7, 9-11, 38, 41, 45, 50 and 57-58 have been amended. Submitted herewith is a request for a three-month extension of time. Also submitted herewith is a newly executed declaration by William Szczepaniak. Also submitted herewith are three date stamped return postcards showing receipt by the Office of the references cited in the Information Disclosure Statement submitted March 19, 2002. Submitted on September 9, 2004 under separate cover are two (2) boxes of foreign patent and non-patent literature references described herein.

The declaration of the present application was objected to as allegedly being defective because the signature for the full name of one of the inventors appeared unsigned. Applicants submitted a petition under 37 CFR 1.47(a) on September 17, 2001 showing that the non-signing inventor, William Szczepaniak, refused to join in the filing of the above-identified application. On November 19, 2001 Applicants received confirmation from the United States Patent and Trademark Office of the decision granting status under 37 CFR 1.47(a). A copy of the decision granting Rule 1.47(a) status is enclosed. Applicants also submit herewith a newly executed declaration signed by William Szczepaniak in compliance with 37 CFR 1.67(a)(2) and a power of attorney also executed by William Szczepaniak. Accordingly, Applicants submit that no additional fees are required for this submission.

The Information Disclosure Statement filed March 19, 2002 was objected to as allegedly being incomplete since it appeared to contain only a part of the documents cited in form PTO 1449. Applicants submit herewith copies of the three postcards accompanying the three boxes of references previously submitted with the Information Disclosure Statement filed March 19, 2002. Due to the voluminous number of references cited by Applicants, three boxes of references were submitted to the Office. Each box of references included a return postcard and a copy of the information disclosure statement clearly identifying a total of three boxes of references submitted with the Information Disclosure Statement. As shown on the enclosed copies of the return postcards, each box of references was received by the Office. Due to the voluminous number of cited references, Applicants have resubmitted copies of the foreign documents and non-patent literature references for the Examiner's review in two separate boxes under separate cover on

September 9, 2004. A copy of the transmittal form for each box of resubmitted documents, the date stamped return postcards of the previously submitted references, a copy of the previously submitted Information Disclosure Statement and a copy of the Resubmittal of References Cited in the Information Disclosure Correspondence mailed September 9, 2004 are enclosed. Due to the timely submission of a complete Information Disclosure Statement received by the Office, Applicants submit that no additional fees are required for this resubmission.

The specification has been objected to as requiring the correction of certain informalities, specifically the change of "SEQ ID No." to "SEQ ID NO." and the change of "SEQ ID Nos." to "SEQ ID NOs.". The specification has been amended throughout to comply with these requested changes. The specification has also been amended on page 21, amending "near 540" to "near 540 nm" as requested by the Examiner. The specification has also been amended on page 27 amending "EM" to "electromagnetic radiation", "UV" to "ultraviolet", and "IR" to "infrared" as requested by the Examiner. Claims 1-3 and 41 have been amended to recite "SEQ ID NO." and/or "SEQ ID NOs.", where appropriate, as requested by the Examiner. Claims 1, 3, 6-7, 9, 11, 38, 41, 45 and 57-58 have been amended to recite "nucleotide sequence" as requested by the Examiner.

35 U.S.C. 112, the second paragraph

Claims 1-13, 22, 38-50 and 57-58 allegedly stand rejected under 35 U.S.C. 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as their invention.

Claim 1 has been amended to recite "or a green fluorescent protein encoded by a <u>nucleic acid molecule of Renilla reniformis</u> having at least 80% sequence identity thereto." Basis for the claim amendment can be found, for example, in Claim 1. Accordingly, no issue of new matter is presented.

Claim 3 has been amended to recite "a nucleotide sequence that hybridizes under high stringency having a percentage mismatch of 0.1 x SSPE, 0.1% SDS at 65° C to the nucleotide sequence of (a)". Basis for the claim amendment can be found, for example, on page 42 of the specification. Accordingly, no issue of new matter is presented.

Claim 10 has been amended to depend from claim 9 and to recite "the nucleic acid

comprising the cloning site". Proper antecedent basis now exists for the recitation of "the plasmid of claim 9". Claim 50 has also been amended to depend from claim 49. Proper basis now exists for the recitation "the cell of claim 49".

35 U.S.C. 103

Claims 1-13, 22, 38-50 and 57-58 presently stand rejected under 35 USC 103(a) as allegedly being unpatentable over Bryan, B.J. et al., U.S. Patent No.6,232,107 ("the '107 Patent). Claim 1 recites, inter alia, "an isolated nucleic acid molecule encoding a Renilla reniformis green fluorescent protein, comprising a nucleotide sequence that encodes the protein of SEQ ID NO. 27 or a green fluorescent protein encoded by a nucleic acid molecule of Renilla reniformis". The Examiner asserts that the '107 Patent teaches an isolated Renilla reniformis polynucleotide comprising a coding sequence encoding a Renilla reniformis green fluorescent protein (GFP). As acknowledged by the Examiner on page 6, lines 7-8 of the Office Action dated March 9, 2004, "the polynucleotide sequence encoding the GFP protein sequence is not described in the Bryan et al. patent." The Examiner submits that the encoded protein sequence reads on SEQ ID NO. 27 of the present application because the source and GFP are the same in the '107 Patent. Different polynucleotide sequences can each encode the same protein, however, each of the different polynucleotide sequences is distinct and expressed differently within cells. Accordingly, the polynucleotide sequence recited in claim 1 has a different functional property and different form of expression in cells from other polynucleotide sequences. Applicants submit that regardless of whether the same protein is disclosed in the '107 patent and the present application, the polynucleotide sequence recited in claim 1 of the present application is not obvious from the encoded protein of the '107 patent. Applicants submit that the '107 Patent does not disclose, teach or suggest the isolated nucleic acid molecule encoding a Renilla reniformis green fluorescent protein, comprising a nucleotide sequence that encodes the protein of SEQ ID NO. 27 or a green fluorescent protein encoded by a nucleic acid molecule of Renilla reniformis as recited in claim 1. Applicants submit that claim 1, and the claims that depend therefrom which assert additional features, are patentable over the cited references. Reconsideration and withdrawal of the rejection of claims 1-13, 22, 38-50 and 57-58 is requested.

Claims 1-13, 22, 38-50 and 57-58 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 5 of U.S. Patent No. 6,232,107. An obvious type double patenting rejection is proper when a claim in the in the application defines an invention that is merely an obvious variation of an invention claimed in the issued patent. Claim 1 of the present application recites "An isolated nucleic acid molecule encoding a Renilla reniformis green fluorescent protein, comprising a nucleotide sequence that encodes the protein of SEQ ID NO. 27 or a green fluorescent protein encoded by a nucleic acid molecule of Renilla reniformis having at least 80% sequence identity thereto." Claim 1 of the '107 Patent recites "An isolated nucleic acid fragment, comprising a sequence of nucleotides encoding Renilla mulleri luciferase, a Gaussia luciferase or a Pleuromamma luciferase, wherein the sequence of nucleotides is selected from the group consisting of a sequence of nucleotides set forth in SEQ ID No. 17, SEQ ID No. 19, or SEQ ID. No. 28; a sequence of nucleotides encoding the amino acid sequence set forth in SEQ ID No. 18, SEQ ID No. 20 or SEQ ID No. 29; or a sequence of nucleotides that hybridizes under high stringency to the sequence of nucleotides set forth in SEQ ID No. 17, SEQ ID No. 19 or SEQ ID No. 28." Claim 5 of the '107 patent recites "A plasmid, comprising the nucleic acid fragment of claim 1."

As acknowledged by the Examiner, claims 1-13, 22, 38-50 and 57-58 are not identical to the subject matter of U.S. Patent No. 6,232,107. Applicants further submit that claim 1 of the present application is not an obvious variation of the invention claimed in the '107 patent. Reconsideration and withdrawal of this rejection is requested.

Appl. No. 09/808,898

Amdt. Dated September 9, 2004

Reply To Office Action Of March 9, 2004

In view of the foregoing remarks it is submitted that pending claims 1-13, 22, 38-50 and 57-58 are patentable over the references of record and, therefore, are in condition for allowance. Applicants respectfully request a timely Notice of Allowance be issued for the present application. In the event that any outstanding matters remain in connection with this application, the Examiner is invited to telephone the undersigned at (412) 263-4362 to discuss such matters.

Respectfully submitted,

Lara A. Northrop Reg. No. 55,502

Pietragallo, Bosick & Gordon One Oxford Centre, 38th Floor

301 Grant Street

Pittsburgh, PA 15219

Attorney for Applicant(s)

Telephone: 412-263-4362



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C.

Paper No. 10

RECEIVED

ROBERT S. KLEMZ ONE OXFORD CENTRE, 38TH FLOOR **301 GRANT STREET** PITTSBURGH, PA 15219

In re Application of Bruce Bryan et al.

Application No. 09/808,898

Filed: March 15, 2001

For: RENILLA RENIFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS

PB & G IP DEPT.

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OFFICE OF PETITIONS

: DECISION GRANTING :STATUS UNDER 37 CFR 1.47(a)

This is in response to the petition under 37 CFR 1.47(a), filed September 17, 2001.

The petition is granted.

Petitioner has shown that the non-signing inventor has refused to join in the filing of the above-identified application.

The above-identified application and papers have been reviewed and found in compliance with 37 CFR 1.47(a). This application is hereby accorded Rule 1.47(a) status. As provided in Rule 1.47(c), this Office will forward notice of this application's filing to the non-signing inventor at the address given in the petition. Notice of the filing of this application will also be published in the Official Gazette.

Telephone inquiries regarding this decision should be directed to Irvin Dingle at (703) 306-5684.

This application is being forwarded to the Initial Patent Examination Unit.

Lead Petitions Examiner

Office of Petitions

Office of the Deputy Commissioner for Patent Examination Policy





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Serial No	09/808,898		Copies Of Date Stamped Return Postcards For Previously
Atty's File No	LUME 48487	_	Submitted IDS & References
Paper Dated	09/09/2004	_	
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SEP 1 3 2004 SEN 1 3 2004

COPY

- Copy Of Previously Submitted IDS

(Box 1 of 2)

Copies Of Previously

Submitted References

- Copies Of Date Stamped

Return Postcards For

Previously Submitted

PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Under the Paperwork Reduction Act of 1995.	no persons	s are required to respond to a collecti	on of infe	ormation	unless it displays a valid OMB control number.
		Application Number	09/808		
TRANSMITTAL	Filing Date	03/15/	2001		
FORM		First Named Inventor	Bruce	Bryan	
(to be used for all correspondence after initial t	filing)	Art Unit	1653		
		Examiner Name	Samue	el W. Liu	
Total Number of Pages in This Submission		Attorney Docket Number	LUME	48487	
	ENCL	OSURES (Check all tha	t apply)	
Fee Transmittal Form		Drawing(s)			After Allowance communication to Technology Center (TC)
Fee Attached Amendment/Reply		icensing-related Papers Petition			Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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Affidavits/declaration(s)		Change of Correspondence Addr	ess		Status Letter
Extension of Time Request	Ц т	erminal Disclaimer		<u>•</u>	Other Enclosure(s) (please Identify below):
Express Abandonment Request	F	Request for Refund			submittat Of References For IDS

L_J u	nder 37 CFR 1.52 or 1.53	IDS & References - Return Postcard
	SIGNA	TURE OF APPLICANT, ATTORNEY, OR AGENT
Firm or Individual name	Lara A. Northrop Pietragallo, Bosick & Gord	ion
Signature	Jan 1	16.0

CD, Number of CD(s)

Remarks

Information Disclosure Statement

Response to Missing Parts

09/09/2004

Certified Copy of Priority

Incomplete Application

Response to Missing Parts/

Document(s)

Date

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Lara A. Northrop		
Signature	Tara Inthe	Date	09/09/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT

Appl. No.

09/808,898

Confirmation No. 4894

Applicant

Bruce Bryan et al.

Filed

03/15/2001

Title

RENILLA RENIFORMIS FLUORESCENT PROTEINS,

NUCEIC ACIDS ENCODING THE FLUORESCENT PROTEINS

AND THE USE THEREOF IN DIAGNOSTICS

TC/A.U.

1653

Examiner

Samuel W. Liu

Docket No.

LUME 48487

Customer No.

29694

:

RESUBMITTAL OF REFERENCES FOR INFORMATION DISCLOSURE STATEMENT

September 9, 2004

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants herewith resubmit copies of the foreign and non-patent literature references cited on the attached Forms PTO/SB/08A and Forms PTO/SB/08B for consideration during prosecution of this application.

These references were previously submitted in an Information Disclosure Statement dated March 19, 2002. Due to the voluminous number of references cited, two (2) boxes of references are herewith resubmitted under separate cover as referenced in Applicants' response to Office Action dated September 9, 2004. Box 1 of 2 contains all foreign documents and non-patent literature references listed on pages 1-9 of 20 of previously submitted PTO/SB/08A and PTO/SB/08B. Box 2 of 2 contains all foreign documents and non-patent literature references listed on pages 10-20 of 20 of previously submitted PTO/SB/08A and PTO/SB/08B.

Applicants submit that these references were timely filed with the Information Disclosure Statement filed March 19, 2002 as evidenced by the copies of the enclosed return postcards date stamped by the Patent and Trademark Office on March 19, 2002. Applicants have resubmitted these references at the request of the Examiner and submit no additional fee is necessary for this resubmittal.

Respectfully submitted,

Lara A. Northrop

Registration No. 55,502

Pietragallo, Bosick & Gordon

One Oxford Centre, 38th Floor

301 Grant Street

Pittsburgh, PA 15219

Attorney for Applicants

(412) 263-4362



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Transmittal Form
Resubmittal Of References For
IDS Transmittal Letter
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Copies Of Previously Submitted
Poferences (BOX 2 OF 2)

Copies Of Previously Submitted References (BOX 2 OF 2) Copies Of Date Stamped Return Postcards For Previously Submitted IDS & References





PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ter the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 09/808.898 TRANSMITTAL Filing Date 03/15/2001 **FORM** First Named Inventor Bruce Bryan Art Unit 1653 (to be used for all correspondence after initial filing) Examiner Name Samuel W. Liu Attorney Docket Number LUME 48487 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): - Resubmittal Of References For IDS Request for Refund **Express Abandonment Request** Transmittal Letter Copy Of Previously Submitted IDS CD, Number of CD(s) Information Disclosure Statement Copies Of Previously Remarks Certified Copy of Priority Submitted References Document(s) (Box 2 of 2) Response to Missing Parts/ - Copies Of Date Stamped Incomplete Application Return Postcards For Response to Missing Parts Previously Submitted under 37 CFR 1.52 or 1.53 IDS & References - Return Postcard SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Lara A. Northrop Pietragallo, Bosick & Gordon Individual name Signature Date

CERTIFICATE OF TRANSMISSION/MAILING

09/09/2004

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Typed or printed name Lara A. Northrop 09/09/2004 Signature

This collection of information is required by 37 CFR 1.5. The information required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

09/808,898

Confirmation No. 4894

Applicant

Bruce Bryan et al.

Filed

03/15/2001

Title

RENILLA RENIFORMIS FLUORESCENT PROTEINS,

NUCEIC ACIDS ENCODING THE FLUORESCENT PROTEINS

AND THE USE THEREOF IN DIAGNOSTICS

TC/A.U.

1653

Examiner

Samuel W. Liu

Docket No.

LUME 48487

Customer No.

29694

RESUBMITTAL OF REFERENCES FOR INFORMATION DISCLOSURE STATEMENT

September 9, 2004

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants herewith resubmit copies of the foreign and non-patent literature references cited on the attached Forms PTO/SB/08A and Forms PTO/SB/08B for consideration during prosecution of this application.

These references were previously submitted in an Information Disclosure Statement dated March 19, 2002. Due to the voluminous number of references cited, two (2) boxes of references are herewith resubmitted under separate cover as referenced in Applicants' response to Office Action dated September 9, 2004. Box 1 of 2 contains all foreign documents and non-patent literature references listed on pages 1-9 of 20 of previously submitted PTO/SB/08A and PTO/SB/08B. Box 2 of 2 contains all foreign documents and non-patent literature references listed on pages 10-20 of 20 of previously submitted PTO/SB/08A and PTO/SB/08B.

Applicants submit that these references were timely filed with the Information Disclosure Statement filed March 19, 2002 as evidenced by the copies of the enclosed return postcards date stamped by the Patent and Trademark Office on March 19, 2002. Applicants have resubmitted these references at the request of the Examiner and submit no additional fee is necessary for this resubmittal.

Respectfully submitted,

Lara A. Northrop

Registration No. 55,502

Pietragallo, Bosick & Gordon

One Oxford Centre, 38th Floor

301 Grant Street

Pittsburgh, PA 15219

Attorney for Applicants

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03/13/2002

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

09/808,898 **Application Number** 03/15/2001 **Filing Date** Bruce Bryan First Named Inventor 1642 Group Art Unit **Examiner Name** 24729-128

Total Number of	of Pages in This Submi	ission Attorney Docket N	umber			
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		CERTIFICATE OF MAILING				
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Date

Alan G. Towner

Typed or printed name

Signature



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BRUCE BRYAN ET AL. **RENILLA RENIFORMIS**

FLUORESCENT PROTEINS,

Serial No.: 09/808,898 NUCEIC ACIDS ENCODING THE

FLUORESCENT PROTEINS AND THE

USE THEREOF IN DIAGNOSTICS Filed: March 15, 2001

Group Art Unit: 1642 Attorney Docket No. 24729-128

INFORMATION DISCLOSURE STATEMENT

March 13, 2002

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants submit herewith copies of the references cited on the attached Forms PTO/SB/08A and Forms PTO/SB/08B for consideration during prosecution of this application. The cited documents are provided in five groups: (1) art that may be related to isolation/cloning of GFP or luciferase proteins and genes; (2) art that may be related to uses of GFP or luciferase; (3) art that may be related to items/procedures that use chemiluminescence; (4) art that may be related to novelty items which use chemiluminescence or bioluminescence; and (5) art that may be related to items/procedures that do not use chemiluminescence or bioluminescence.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

Respectfully submitted,

Alan G. Towner

Registration No. 32,949

Pietragallo, Bosick & Gordon

One Oxford Centre, 38th Floor

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Pittsburgh, PA 15219

Attorney for Applicant

495052

(412) 263-4340

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24729-0128	SERIAL 09/808	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			OIPE OF
	APPLICANT BRYAN et al.		SEP 1 3 2004
	FILING DATE	GROUP	St. LEAT

1) Art that concerns isolation/cloning of GFP, or Luciferase proteins and genes.

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1	Α	4	5	8	1	3	3	5	4/8/86	Baldwin	435	172.3	12/1/82
1	В	4	9	6	8	6	1	3	11/6/90	Masuda et al.	435	172.3	07/26/88
1	С	5	0	9	3	2	4	0	3/3/92	Inouye et al.	435	69.1	10/8/87
1	D	5	0	9	8	8	2	8	3/24/92	Geiger et al.	435	7.72	10/24/86
1	E ·	5	1	3	9	9	3	7	8/18/92	Inouye et al.	435	69.1	11/18/88
1	F	5	1	6	2	2	2	7	11/10/92	Cormier	435	252.33	03/17/88
1	G	5	1	8	2	2	0	2	1/26/93	Kajiyama et	435	189	8/5/91
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1	Н	5	1	9	6	5	2	4	3/23/93	Gustafson et	536	23.2	01/06/89
										al.	<u> </u>		
1	l	5	2	1	9	7	3	7	6/15/93	Kajiyama et	435	69.1	3/26/91
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1	K	5	2	9	2	6	5	8	3/8/94	Cormier et al.	435	252.33	6/17/93
1	L	5	3	3	0	9	0	6	7/19/94	Kajiyama et	435	189	06/15/93
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1	M	5	3	5	2	5	9	8	10/4/94	Kajiyama et	435	189	8/29/91
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1	N	5	3	6	0	7	2	8	11/1/94	Prasher	435	189	12/1/92
1	0	5	4	1	8	1	5	5	05/23/95	Cormier et al.	435	189	12/14/93
1	Р	5	4	2	2	2	6	6	06/6/95	Cormier et al.	435	252.3	10/9/92
1	Q	5	6	0	4	1	2	3	02/18/97	Kazami et al.	435	189	06/15/94
1	R	5	6	2	5	0	4	8	4/29/97	Tsien et al.	536	23.4	11/10/94
1	S	5	7	4	1	6	6	8	04/21/98	Ward et al.	435	69.1	05/26/95
1	T	5	7	7	7	0	7	9	07/07/98	Tsien et al.	530	350	11/20/96
1	U	5	8	0	4	3	8	7	09/08/98	Cormack et al.	435	6	01/31/97
1	V	5	8	7	4	3	0	4	02/23/99	Zolotukhin et	435	366	01/18/96
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1	X	0	3	8	7	3	5	5	9/19/90	EP A1				
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2	DQ	5	1 1	9	6	3	1	8	3/23/93	Baldwin et al.	435	69.1	06/26/90
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2	GG	Sgoutas et al., AquaLite® biolumi	nescence assay of thyrotropin	in serum eval	uated, <u>Clin.</u>						
		Chem. 41(11):1637-1643 (1995)									
2	GH	Sheu et al., Measurement of intra	cellular calcium using biolumir	nescent aequo	rin exposed in						
		human cells, Analyt. Biochem. 209		·							
2	GI	Straight et al. GFP tagging of bud		als that protein	n-protein						
		interations can mediate sister chro									
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_		Assays: Purification of Recombina									
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3) Art that concerns items/procedures that use chemi- or bio-luminescence.

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	GO	3	5	1	1	6	1	2	05/12/70	Kennerly et al.	23	252	03/20/67
3 3	GP	3	5	6	5	8	1	5	2/23/71	Christy	252	301.3	12/28/67
3	GQ	3	6	6	9	8	9	1	6/13/72	Greenwood et al.	252	90	5/27/70
3	GR	4	3	1	3	8	4	3	2/2/82	Bollyky et al.	252	188.3	9/9/76
3	GS	4	4	7	8	8	1	7	10/23/84	Campbell et la.	424	7.1	11/14/78
3	GT	4	5	3	4	3	1	7	08/13/85	Walsh	119	51 R	08/30/84
3	GU	4	7	1	4	6	8	2	12/22/87	Schwartz	436	10	04/03/87
3	GV	4	7	6	7	2	0	6	8/30/88	Schwartz	356	73	12/24/84
3	GW	4	7	7	4	1	8	9	9/27/88	Schwartz	436	10	12/11/85
3	GX	4	7	7	7	1	2	8	10/11/88	Lippa	435	5	05/27/86
3	GY	4	8	5	3	3	2	7	8/1/89	Dattagupta	435	6	7/10/85
3	GZ	4	8	6	7	9	0	8	9/19/89	Recktenwald et al.	252	408.1	6/4/87
3	HA	4	9	5	0	5	8	8	8/21/90	Dattagupta	435	6	09/27/88
3	HB	5	0	0	4	5	6	5	4/02/91	Schaap	252	700	07/27/88
3	HC	5	1	8	9	0	2	9	02/23/93	Boyer et al.	514	64	04/23/90
3	HD	5	2	7	9	9	4	3	1/18/94	Mathis et al.	435	7.32	01/19/93
3	HE	5	3	7	4	5	3	4	12/20/94	Zomer et al.	435	8	5/14/93
3	HF	5	4	2	2	0	7	5	06/06/95	Saito et al.	422	52	05/27/93
3	HG	5	4	2	4	2	1	6	6/13/95	Nagano et al.	436	116	8/16/93
3	НН	5	4	3	3	8	9	6	07/18/95	Kang et al.	252	700	05/20/94
3	HI	5	4	3	5	9	3	7	7/25/95	Bell et al.	252	301.18	02/12/93
3	HJ	5	4	3	9	7	9	7	08/08/95	Tsien et al.	435	7.21	08/30/93
3	HK	5	4	5	1	3	4	7	9/19/95	Akhavan-Tafti et al.	252	700	6/24/93
3	HL	5	4	8	4	7	2	3	01/16/96	Zenno et al.	435	189	06/28/94
3	НМ	5	4	8	6	4	5	5	01/23/96	Stults	435	6	08/22/94
3	HN	5	7	1	9	0	4	4	02/17/98	Shoseyov et al.	435	69.7	02/17/98

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3	НО	0	0	2	5	3	5	0	09/05/80	EP A2				
3	HP	0	1	9	4	1	0	2	10/23/91	EP B1				
3	HQ	0	2	4	6	1	7	4	11/19/87	EP A1			X*	
3	HR	0	7	1	3	0	8	9	05/22/96	EP A2				
3	HS	2	2	9	2	5	9	5	6/25/76	FR			X*	
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3	HW	9	9	6	6	3_	2	4	12/23/99	PCT								

OTHER A	ART (Inclu	ding Author, Title, Date, Pertinent Pages, Etc.)
3	HX	Amato, Race quickens for non-stick blood monitoring technology, Science 258:892-893 (1992)
3	HY	Apt et al., Evolution of phycobiliproteins, J. Mol. Biol. 248: 79-96 (1995)
3	HZ	Baird et al., "Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent
		protein form coral", <i>PNAS</i> , <u>97(22)</u> :11984-11989; (2000)
3	IA	Bondar et al., Cadmium-induced luminescence of recombinant photoprotein obelin, Biochim.
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3	IE	Database Derwent #008987167 (citing WO 9204577, Chemiluminescence prodn. in liqcontg.
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		(1993)		
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3	IT	Morin et al., "Energy Transfer in (1971)		
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	<u> </u>	Biolumin. Chemilum. 5:25-30 (199		
3	IV	Nicoli et al., Bacterial luciferase:		of the reactive sulfhydryl, <u>J.</u>
		Biol. Chem. 249: 2393-2396 (197		
3	IW	O'Day et al., Aristostomias scintill		
3	IX	apparently adapted to its own bio		
. S	'^	Peerce et al. Distance between si energy transfer Proc. Natl. Acad.		
3	IY	Pilot et al., Cloning and sequencing		
3	''	phycocyanin from the cyanobacte		
		USA 81: 6983-6987 (1984)	aquuurupnoo	
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3	JI	Stability of AquaLite®: Iyophilized		
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3	JJ	Stephenson et al. Studies on the	Luminescent Response of the	Ca ²⁺ -Activated Photoprotein.
		Obelin Biochimica et Biophysica A	Acta <u>678</u> :65-75 (1981)	
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		studied by means of ¹⁷ O ₂ and H ₂ ¹¹	O ¹ , Biochem. Biophys.Res. C	commun. 74(2):606-613 (1977)
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		Separation and Characterization										
3	JP	Ward, Properties of the Coelente Chemiluminescence 235-242 (19		rotein	s <u>Biolumines</u>	cence and						
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3	JR	Ward et al. Energy Transfer Via Photochemistry and Photobiolog		n Rer	nilla Biolumine	escence						
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3	JT		protein in coelenterate bioluminescence, <u>J. Biol. Chem. 254</u> :									
3	JU	Ward et al. In Vitro Energy Trans Chemistry 8:2289-2291 (1976)	sfer in Renilla Bioluminesce	ence	The Journal o	of Physical						
3	JV	Watanabe et al., Bunding of mur configurations of aequorin, FEBS			e active and i	nactive						
3	JW	Watkins et al., Requirement of the photoprotein aequorin, Biochem	ne C-terminal proline residu	e for	stability of th	e Ca ⁽²⁺⁾ -activated						
3	JX	Welches et al., Active center stu 2,4-dinitrofluorobenzene, Bioche	dies on bacterial luciferase		dification of th	e enzyme with						
3	JY	Widder <i>et al.</i> , "Far red biolumine (1984)		fishe	es", <u>Science 2</u>	<u>25</u> :512-514						
3	JZ	Wienhausen et al., Luciferases f Photochem. Photobiol. 42: 609-6		eflies	are antigenic	ally similar,						
3	KA	Yarbrough et al., "Refined crysta 2.0-Å resolution", PNAS, 98(2):4	al structure of DsRed, a red	fluor	escent protei	n from coral, at						
3	КВ	Yen et al., "Synthesis of water-se Makromol. Chem., 190:69-82; (1	oluble copolymers containii	ng ph	otocleavable	bonds",						
3	КС	Ziegler et al., Active center studi regions and the reactive cystein Bioluminescence and Chemilum DeLuca et al., eds., pp. 376-377	es on bacterial luciferase: yl residue in the primary str inescence. Basic Chemist	uctur	e of the _ sub	ounit,						

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4) Art that concerns novelty items which use chemi- or bioluminescence.

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4	KD	3	5	8	4	2	1	1	6/8/71	Rauhut		40	2.2	5	10/7/68	
4	KE	3	6	3	4	2	8	0	1/11/72	Dean et al.		:52	301.3	3 .	12/31/68	
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4	KF	3	6	6	1	7	9	0	5/9/72	Dean et al.	2	52	301.3	3	1/31/68	
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4	KG	4	5	6	3	7	2	6	1/7/86	Newcomb e	t 3	62	34	1	8/20/84	
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4	KH	4	7	1	7	1	5	8	1/5/88	Pennisi		73	58 <i>A</i>		6/26/86	
4	KI	4	7	. 8	1	6	4	7	11/1/88	Doane, Jr.		46	219		5/4/87	
4	KJ	4	9	2	4	3	5	8	5/8/90	Von Heck		62	32		9/12/88	
4	KK	4	9	6	3	1	1	7	10/16/90	Gualdoni	4	46	219		10/30/89	
4	KL	5	1	5	8	3	4	9	10/27/92	Holland et a	<i>l.</i> 3	62	34		07/03/91	
4	KM	5	1	7	1	0	8	1	12/15/92	Pita et al.	(62	34		5/29/92	
4	KN	5	2	2	2	7	9	7	6/29/93	Holland		62	34		10/31/91	
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4	KR	5	4	1	5	1	5	1	5/16/95	Fusi et al.		24	56		9/20/93	
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5	KY	2	5	4	1	8	5	1	2/13/51	Wright	260	37	12/23/44
5	KZ	3	6	4	9	0	2	9	03/14/72	Worrell	273	186	07/09/69
5	LA	3	7	2	7	2	3	6.	04/17/73	Lloyd et al.	2	51	06/15/71
5	LB	3	3	8	4	4	9	8	5/21/68	Ahrabi	106	38.5	1/4/67
5	LC	3	8	7	3	4	8	5	3/25/75	Fichera	260	29.2	4/3/74
5	LD	4	0	2	1	3	6	4	5/03/77	Speiser	252	316	12/04/73
5	LE	4	0	4	4	1	2	6	08/23/77	Cook et al.	424	243	07/09/76
5	LF	4	1	7	5	1	8	3	11/20/79	Ayers	536	57	05/24/78
5	LG	4	1	7	7	0	3	8	12/04/79	Biebricher et	8	192	05/17/77
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5	LH	4	2	2	5	5	8	1	9/30/80	Kreuter et al.	424	88	8/07/78
5	L	4	2_	2	9	7	9	0	11/21/80	Gilliland et al.	364	200	10/16/78
5	LJ	4	2	6	9	8	2	1	5/26/81	Kreuter	424	19	05/02/80
5	LK	4	2	8	1	6	4	5	08/04/81	Jöbsis	128	633	06/28/77
5	LM	4	2	8	2	2	8	7	8/4/81	Giese	428	407	01/24/80
5	LN	4	3	2	4	6	8	3	4/13/82	Lim et al.	252	316	08/20/75
5	LO	4	3	6	4	9	2	3	12/21/82	Cook et al.	424	46	04/30/81
5	LP	4	4	1	4	2	0	9	11/08/83	Cook et al.	424	243	06/13/77
5	LQ	4	5	2	8	1	8	0	7/09/85	Schaeffer	424	52	03/01/83
5	LR	4	5	4	2	1	0	2	9/17/85	Dattagupta et	435	6	07/05/83
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5	LS	4	5	6	2	1	5	7	12/31/85	Lowe et al.	435	291	05/25/84
5	LT	4	6	7	6	4	0	6	6/30/87	Frischmann et	222	136	9/29/86
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5	LU	4	6	8	1	8	7	0	7/21/87	Balint et al.	502	403	01/11/85
5	LV	4	7	3	5	6	6	0	4/5/88	Cane	106	203	6/26/87
5	LW	4	7	4	5	0	5	1	05/17/88	Smith et al.	435	68	05/27/83
5	LX	4	7	6	2	8	8	1	8/09/88	Kauer	525	54.11	01/09/87
5	LY	4	7	6	5	5	1	0	8/23/88	Rende	222	79	4/7/87
5	LZ	. 4	7	8	9	6	3	3	12/06/88	Huang	435	240.2	04/19/84
5	MA	4	8	7	0	0	0	9	09/26/89	Evans et al.	435	70	12/15/83
5	MB	4	8	8	2	1	6	5	11/21/89	Hunt et al.	424	450	11/05/86
5	MC	4	8	9	1	0	4	3	1/02/90	Zeimer et al.	604	20	05/28/87
5	MD	4	9	0	8	4	0	5	3/13/90	Bayer et al.	525	61	01/02/86
5	ME	4	9	2	1	7	5	7	5/01/90	Wheatley et	428	402.2	09/03/87
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5	MF	4	9	2	7	9	2	3	05/22/90	Mathis et al.	540	456	09/20/85
5	MG	4	9	5	2	4	9	6	08/28/90	Studier et al.	435	91	12/29/86
5	MH	5	0	2	3	1	8	1	6/11/91	Inouye	435	189	7/13/88
5	MI	5	0	9	6	8	0	7	3/17/92	Leaback	435	6	3/17/92
5	MJ	5	1	2 -	8	2	5	6	07/07/92	Huse et al.	435	172.3	04/20/89
5	MK	5	1	6	2	5	0	8	11/10/92	Lehn et al.	401	04	06/26/91

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5	MR	5	2	7	7	9	1	3	1/11/94	Thompson et	424	450	09/09/91	
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5	MS	5	2	8	8	6	2	3	02/22/94	Zenno et al.	435	69.7	07/13/92	
5	MT	5	3	1	0	4	2	1	5/10/94	Shapero et al.	106	208	2/7/92	
5	MU	5	3	3	7	7	4	5	08/16/94	Benaron	128	633	11/12/93	
5	MV	5	3	6	0	7	2	6	11/01/94	Raikhel	435	172.3	11/12/91	
5	MW	5	3	6	2	8	6.	5	11/8/94	Austin	536	24.1	9//2/93	
5	MX	5	3	6	4	7	9	7	11/15/94	Olson et al.	436	501	05/20/93	
5	MY	5	3	6	6	8	8	1	11/22/94	Singh et al.	435	177	02/23/93	
5	MZ	5	3	8	7	5	2	6	2/07/95	Garner et al.	436	169	09/11/91	
5	NA	5	4	0	5	9	0	5	4/11/95	Darr	524	420	11/26/93	
5	NB	5	4	0	5	9	5	8	4/11/95	VanGermert	544	71	12/21/92	
5	NC	5	4	1	2	0	8	5	5/2/95	Allen et al.	536	24.1	11/09/93	
5	ND	5	4	1	3	0	9	8	05/09/95	Benaron	128	633	12/22/92	
5	NE	5	4	3	2	0	8	1	7/11/95	Jefferson	435	252.3	11/15/93	
5	NF	5	4	5	5	3	5	7	10/03/95	Herrmann et	548	147		
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5	NG	5	4	6	4	7	5	8	11/7/95	Gossen et al.	435	69.1	6/14/93	
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5	NI	5	6	0	5	6	6	2	02/25/97	Heller et al.	422	68.1	11/01/93	
5	NJ	5	6	2	4	7	1	1	04/29/97	Sundberg et	427	261	04/27/95	
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5	NN	6	0	2	0	5	3	8	02/01/00	Han et al.	800	293	05/01/98	
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5	NP	7	2	4	1	1	9	2	9/95	JP A			X*	
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